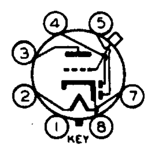
6R7, 6R7-GT/G

# 6R7, 6R7-GT/G
## DUPLEX-DIODE TRIODE

| | | | |
|---|---|---|---|
| Heater | Coated Unipotential Cathode | | |
| Voltage | 6.3 | | a-c or d-c volts |
| Current | 0.3 | | amp. |
| | 6R7 | 6R7-GT/G | |
| Direct Interelectrode Cap. | ▲ | | |
| Grid to Plate | 2.4 | - | μμf |
| Grid to Cathode | 4.8 | - | μμf |
| Plate to Cathode | 3.8 | - | μμf |
| Maximum Overall Length | 3-1/8" | 3-5/16" | |
| Maximum Seated Height | 2-9/16" | 2-3/4" | |
| Maximum Diameter | 1-5/16" | 1-5/16" | |
| Bulb | Metal Shell, MT-8 | T-9 | |
| Cap | Miniature | Skirted Miniature | |
| Base | Small Wafer Octal 7-Pin | Intermed. Shell Octal 7-Pin | ← |
| Basing Designation | 7V | G-7V | ← |

Pin 1 — 6R7, Shell; 6R7-GT/G, No Connection
Pin 2 - Heater
Pin 3 - Triode Plate
Pin 4 - Diode Plate #2
Pin 5 - Diode Plate #1
Pin 7 - Heater
Pin 8 - Cathode
Cap - Triode Grid



BOTTOM VIEW

Mounting Position — Any

***Maximum Ratings Are Design-Center Values***

TRIODE UNIT

| | | |
|---|---|---|
| Plate Voltage | 250 max. | volts |
| Plate Dissipation | 2.5 max. | watts |
| D-C Heater-Cathode Potential | 100 max. | volts ← |

*Typical Operation and Characteristics-Class $A_1$ Amplifier:*

| | | |
|---|---|---|
| Plate | 250 | volts |
| Grid | -9 | volts |
| Amp. Fact. | 16 | |
| Plate Res. | 8500 | ohms |
| Transcond. | 1900 | μmhos |
| Plate Cur. | 9.5 | ma. |

*Typical Operation— Resistance-Coupled Amplifier:*
See RESISTANCE-COUPLED AMPLIFIER CHART. Under maximum rated conditions, the d-c resistance in the grid circuit of the 6R7 and 6R7-GT/G should not exceed 1.0 megohm.

DIODE UNITS - Two

For consideration of these units, see Type 85. Circuits will be similar to those shown for Type 55 with fixed bias. Diode biasing of the triode unit of the 6R7 and 6R7-GT/G is not suitable. Diode curves under Type 6B7 apply to the 6R7 and 6R7-GT/G.

▲ Triode unit with shell connected to cathode. Values are approximate.

*An additional curve applying to Types 6R7 and 6R7-GT/G is shown under Type 6SR7.*

←Indicates a change.

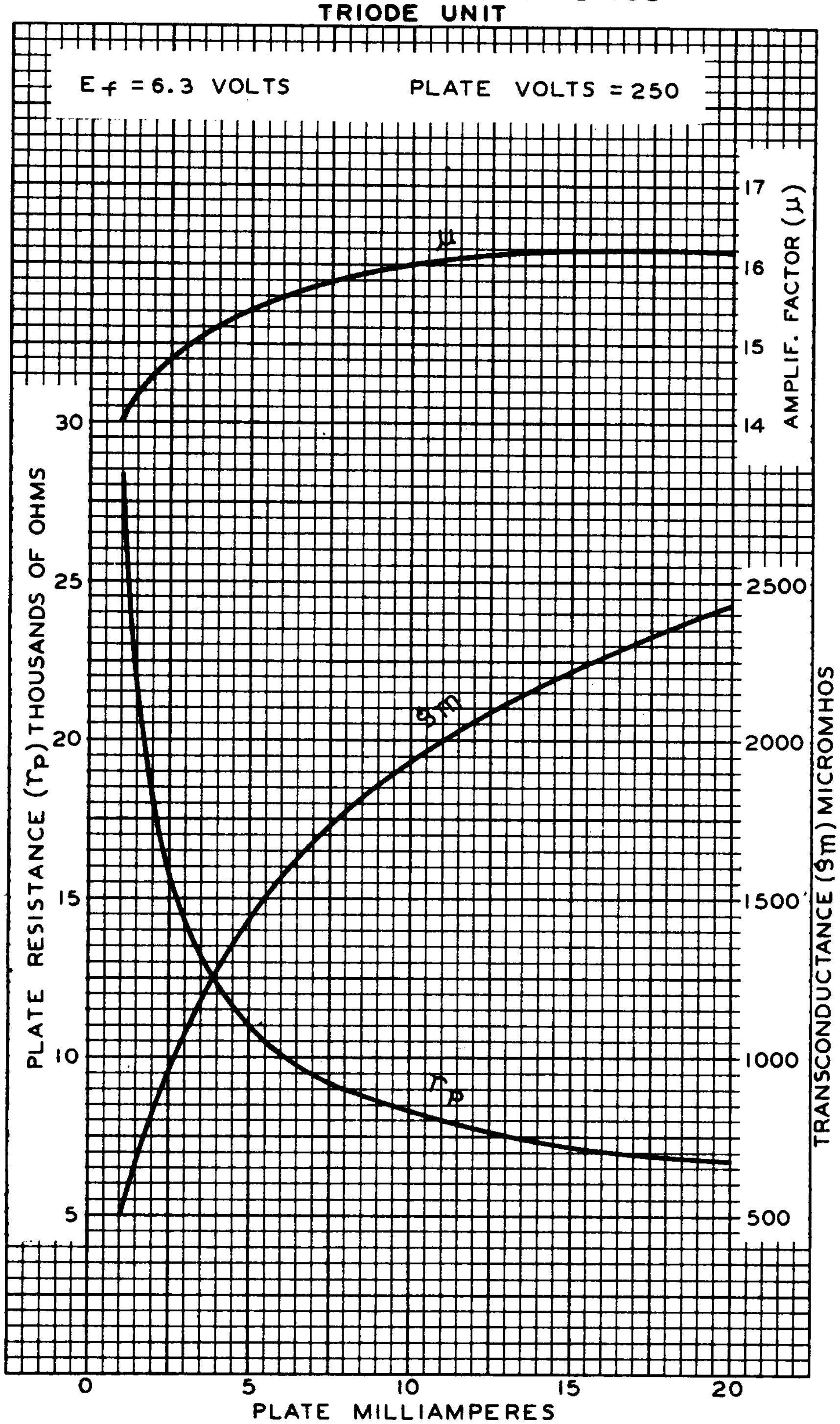
DEC. 1, 1943 — DATA

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# 6R7

## AVERAGE CHARACTERISTICS

### TRIODE UNIT




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92CM—4546R1